



# TEST CERTIFICATE

PAGE NO. 01 OF 01  
 FILE NO: 3526-03-06  
 DATE: 03/09/99  
 MILL ORDER NO: 93702-001

CUSTOMER P.O.: 21105  
 DESCRIPTION:

22223

**SOLD TO:** HEFLIN STEEL SUPPLY CO. P.O. BOX 1249 PHOENIX AZ 85001  
**SEND TO:** HEFLIN STEEL SUPPLY CO. P.O. BOX 1249 PHOENIX AZ 85001  
**SHIP TO:** HEFLIN STEEL COMPANY CLIC #0217, EAST END PHOENIX AZ 85007

**PHOENIX AZ 85001**  
 THE MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH PURCHASE ORDER NUMBER AND SPECIFICATIONS:  
**HFLIN REM-500 REV 2 YR 95**  
 MATERIAL PRODUCED UNDER A CERTIFIED QUALITY MGMT SYSTEM COMPLYING WITH ISO 9002 ABS-QE CERT. NO. 30130

CHEMICAL ANALYSIS													PHOENIX	AZ 85001	PHOENIX	AZ 85007
MELT/SLAB	C	MN	P	S	CU	SI	NI	CR	MO	V	Ti	B	CB	GS 7-8	FINELINE	
R0959	.29	.66	.008	.001	.25	.6	.27	.24	.002	.033	.0023	.001				

TENSILES				CHARPY V IMPACTS				OTHER TESTS PERFORMED			
YLD	TENS	% ELONG	% R.A.	TYPE	TEMP	MILS CATERG	EXPANSI	SHEAR	BRINELL	PLATE	
									511		

HEAT TREAT CYCLES - MATL OR TESTS - DEG F AHR											
MATL	TEST	NOM TEMP	MIN TEMP	MAX TEMP	HOLD MINS	COOL METHOD	END TEMP	START TEMP	END TEMP	MIN TEMP	MAX TEMP
X		1660			0022	HQ					
X		0402			0030	AC					

## INFORMATION

WEIGHT PER PIECE = 2940 LBS. 1336 KG.  
 ALL STEEL HAS BEEN MELTED AND MANUFACTURED IN THE U.S.A.  
 MATERIAL HAS BEEN VACUUM DEGASSED AND CALCIUM TREATED FOR SULFIDE SHAPE CONTRL.  
 FINELINE MOD FOR SULPHUR  
 BRINELL TESTING WAS PERFORMED USING A CARBIDE BALL (HBW).  
 B/L #44288 NOKL 2913

*Elmer J. Kelly*  
 SUPERVISOR - TEST REPORTING

WE HEREBY CERTIFY THE ABOVE INFORMATION IS CORRECT.  
 Quality Assurance Laboratory  
 Coatesville, PA 19320